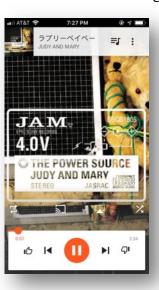
EXHIBIT BW

Claim: 1	Chromecast-Enabled Computing Devices
Tangible, non-transitory,	Google's line of Chromecast-enabled audio players includes, inter alia, the Google Home Mini, the
computer-readable media	Google Home, the Google Home Max, the Google Home Hub, and the Chromecast dongles, and these
having instructions encoded	Chromecast-enabled audio players are controlled by smartphones, tablets, and computers installed
therein, wherein the	with the Google Home app, the Google Play Music app, and/or other Chromecast-enabled apps
instructions, when executed	(where a computing device installed with at least one of these apps is referred to herein as a
by one or more processors,	"Chromecast-enabled computing device"). Each of the foregoing Chromecast-enabled audio players
cause a control device of a	comprises a "playback device" as recited in claim 1, a Chromecast-enabled playback system including
media playback system to	one or more Chromecast-enabled audio players and one or more Chromecast-enabled computing
perform a method	devices on the same LAN comprises a "media playback system" as recited in claim 1, each
comprising:	Chromecast-enabled computing device comprises a "control device of a media playback system" that
	includes tangible, non-transitory computer-readable media as recited in claim 1, and Google's Cloud
	Platform comprises a "computing system" as recited in claim 1. See, e.g.,
	https://developers.google.com/cast/docs/android_sender/queueing;
	https://developers.google.com/cast/docs/ios_sender/queueing;
	https://developers.google.com/cast/docs/caf_receiver/queuing;
	https://developers.google.com/cast/docs/reference/caf_receiver/cast.framework.QueueBase.
transmitting, over a network	A Chromecast-enabled computing device includes tangible, non-transitory computer-readable media
interface to a computing	comprising instructions that, when executed by the device's one or more processors, cause the
system, a request to access a	Chromecast-enabled computing device to transmit, over a network interface to a computing system
first cloud queue that	(e.g., Google's Cloud Platform), a request to access a first cloud queue that includes a given pre-
includes a given pre-defined	defined playlist of audio tracks, where the first cloud queue is accessible to the Chromecast-enabled
playlist of audio tracks,	playback system via a wide area network (WAN).
wherein the first cloud queue	
is accessible to the media	For instance, a Chromecast-enabled computing device is programmed with the capability to transmit a
playback system via a wide	request to access a cloud queue that includes a pre-defined playlist of audio tracks from a computing
area network;	system that is accessible to the Chromecast-enabled playback system via a WAN, such as a cloud
	queue maintained by Google's Cloud Platform that includes a Google Play Music playlist. See, e.g.,
	https://developers.google.com/cast/docs/android_sender/queueing;
	https://developers.google.com/cast/docs/ios_sender/queueing;
	https://developers.google.com/cast/docs/caf_receiver/queuing;
	https://developers.google.com/cast/docs/reference/caf_receiver/cast.framework.QueueBase;
	https://developers.google.com/cast/docs/reference/caf_receiver/cast.framework.QueueManager;
	https://developers.google.com/cast/docs/reference/caf_receiver/cast.framework.messages.QueueItem;
	https://developers.google.com/cast/docs/reference/caf_receiver/cast.framework.messages.QueueData;

	https://developers.google.com/cast/docs/reference/caf_receiver/cast.framework.messages.QueueLoad
	RequestData.
after transmitting the request	A Chromecast-enabled computing device includes tangible, non-transitory computer-readable media
to access the first cloud	comprising instructions that, when executed by the device's one or more processors, cause the
queue, receiving, over the	Chromecast-enabled computing device to, after transmitting the request to access the first cloud
network interface from the	queue, receive, over the network interface from a computing system (e.g., Google's Cloud Platform),
computing system, an	an indication of one or more first media items of the first cloud queue and an indication of one or
indication of one or more	more first playback policies associated with pre-defined playlists, where the one or more first
first media items of the first	playback policies authorize the Chromecast-enabled playback system to perform a particular set of
cloud queue and an	one or more first playback operations on the first cloud queue when a pre-defined playlist is queued in
indication of one or more	the first cloud queue.
first playback policies	
associated with pre-defined	For instance, a Chromecast-enabled computing device is programmed such that, after transmitting a
playlists, wherein the one or	request to access a cloud queue that includes a pre-defined playlist of songs (e.g., a Google Play
more first playback policies	Music playlist), the Chromecast-enabled computing device has the capability to receive, from a
authorize the media playback	computing system (e.g., Google's Cloud Platform), an indication of one or more audio tracks of the
system to perform a	cloud queue and an indication of one or more playback policies associated with pre-defined playlists
particular set of one or more	that authorize the Chromecast-enabled playback system to perform one set of playback operations on
first playback operations on	a pre-defined playlist that is queued in the cloud queue, such as a set of playback operations that allow
the first cloud queue when a	for playing, pausing, skipping forward, and skipping backwards. See, e.g.,
pre-defined playlist is	https://developers.google.com/cast/docs/android_sender/queueing;
queued in the first cloud	https://developers.google.com/cast/docs/ios_sender/queueing;
queue;	https://developers.google.com/cast/docs/caf_receiver/queuing;
	https://developers.google.com/cast/docs/reference/caf_receiver/cast.framework.QueueBase;
	https://developers.google.com/cast/docs/reference/caf_receiver/cast.framework.QueueManager;
	https://developers.google.com/cast/docs/reference/caf_receiver/cast.framework.messages.QueueItem;
	https://developers.google.com/cast/docs/reference/caf_receiver/cast.framework.messages.QueueData;
	https://developers.google.com/cast/docs/reference/caf_receiver/cast.framework.messages.QueueLoad
while the first sloud guous is	RequestData.
while the first cloud queue is being accessed, causing a	A Chromecast-enabled computing device includes tangible, non-transitory computer-readable media comprising instructions that, when executed by the device's one or more processors, cause the
graphical display to display a	Chromecast-enabled computing device to, while the first cloud queue is being accessed, cause the
control interface comprising	Chromecast-enabled computing device to, while the first cloud queue is being accessed, cause the Chromecast-enabled computing device's graphical display to display a control interface comprising
playback controls	playback controls corresponding to the one or more first playback operations.
	playback controls corresponding to the one of more first playback operations.
corresponding to the one or	

more first playback	
operations;	

For instance, a Chromecast-enabled computing device is programmed such that, while accessing a cloud queue that is loaded with a pre-defined playlist, the Chromecast-enabled computing device is capable of causing its graphical display to display a user interface that includes playback controls corresponding to the set of playback operations that are permitted for the pre-defined playlist, such as playback controls for playing, pausing, skipping forward, and skipping backward. Some examples of this functionality are illustrated in the following screenshots:





transmitting, over the network interface to the computing system, a request to access a second cloud queue that includes a given internet radio station; A Chromecast-enabled computing device includes tangible, non-transitory computer-readable media comprising instructions that, when executed by the device's one or more processors, cause the Chromecast-enabled computing device to transmit, over the network interface to a computing system (e.g., Google's Cloud Platform), a request to access a second cloud queue that includes a given internet radio station.

For instance, a Chromecast-enabled computing device is programmed with the capability to transmit a request to access a cloud queue that includes a given internet radio station from a computing system that is accessible to the Chromecast-enabled playback system via a WAN, such as a cloud queue maintained by Google's Cloud Platform that includes a Google Play Music radio station. *See, e.g.*, https://developers.google.com/cast/docs/android sender/queueing;

	https://developers.google.com/cast/docs/ios_sender/queueing;
	https://developers.google.com/cast/docs/caf_receiver/queuing;
	https://developers.google.com/cast/docs/reference/caf_receiver/cast.framework.QueueBase;
	https://developers.google.com/cast/docs/reference/caf receiver/cast.framework.QueueManager;
	https://developers.google.com/cast/docs/reference/caf receiver/cast.framework.messages.QueueItem;
	https://developers.google.com/cast/docs/reference/caf receiver/cast.framework.messages.QueueData;
	https://developers.google.com/cast/docs/reference/caf_receiver/cast.framework.messages.QueueLoad
	RequestData.
after transmitting the request	A Chromecast-enabled computing device includes tangible, non-transitory computer-readable media
to access the second cloud	comprising instructions that, when executed by the device's one or more processors, cause the
queue, receiving, over the	Chromecast-enabled computing device to, after transmitting the request to access the second cloud
network interface from the	queue, receive, over the network interface from a computing system (e.g., Google's Cloud Platform),
computing system, an	an indication of one or more second media items of the second cloud queue and an indication of one
indication of one or more	or more second playback policies associated with internet radio stations, where the one or more
second media items of the	second playback policies authorize the Chromecast-enabled playback system to perform a particular
second cloud queue and an	set of one or more second playback operations on the second cloud queue when an internet radio
indication of one or more	station is queued in the second cloud queue.
second playback policies	
associated with internet radio	For instance, a Chromecast-enabled computing device is programmed such that, after transmitting a
stations, wherein the one or	request to access a cloud queue that includes a given internet radio station (e.g., a Google Play Music
more second playback	radio station), the Chromecast-enabled computing device has the capability to receive, from
policies authorize the media	computing system (e.g., Google's Cloud Platform), an indication of one or more audio tracks of the
playback system to perform a	cloud queue that includes the given internet radio station and an indication of one or more playback
particular set of one or more	policies associated with internet radio stations that authorize the Chromecast-enabled playback system
second playback operations	to perform a different set of playback operations on an internet radio station that is queued in a cloud
on the second cloud queue	queue, such as a set of playback operations that allow for playing, pausing, and skipping forward, but
when an internet radio	not skipping backwards. See, e.g., https://developers.google.com/cast/docs/android sender/queueing;
station is queued in the	https://developers.google.com/cast/docs/ios_sender/queueing;
second cloud queue; and	https://developers.google.com/cast/docs/caf receiver/queuing;
second cloud queue, and	https://developers.google.com/cast/docs/reference/caf receiver/cast.framework.QueueBase;
	https://developers.google.com/cast/docs/reference/caf_receiver/cast.framework.QueueManager;
	https://developers.google.com/cast/docs/reference/caf_receiver/cast.framework.messages.QueueItem;
	https://developers.google.com/cast/docs/reference/caf_receiver/cast.framework.messages.QueueData;
	https://developers.google.com/cast/docs/reference/caf_receiver/cast.framework.messages.QueueData,
	RequestData.

while the second cloud queue is being accessed, causing the graphical display to display the control interface comprising playback controls corresponding to the one or more second playback operations, wherein the control interface comprising playback controls corresponding to the one or more first playback operations is different from the control interface comprising playback controls corresponding to the one or more second playback operations.

A Chromecast-enabled computing device includes tangible, non-transitory computer-readable media comprising instructions that, when executed by the device's one or more processors, cause the Chromecast-enabled computing device to, while the second cloud queue is being accessed, causing the graphical display to display the control interface comprising playback controls corresponding to the one or more second playback operations, where the control interface comprising playback controls corresponding to the one or more first playback operations is different from the control interface comprising playback controls corresponding to the one or more second playback operations.

For instance, a Chromecast-enabled computing device is programmed such that, while accessing a cloud queue that is loaded with a given radio station, the Chromecast-enabled computing device is capable of causing its graphical display to display a user interface that includes playback controls corresponding to the different set of playback operations that are permitted for the given internet radio station, such as playback controls for playing, pausing, and skipping forward, but not skipping backward. Some examples of this functionality are illustrated in the following screenshots:



